Title (en)
Process controller and updating method thereof

Title (de)
Prozesssteuerung und Aktualisierungsverfahren dafür

Title (fr)
Dispositif de commande de processus et son procédé de mise à jour

Publication
EP 2897007 B1 20201125 (EN)

Application
EP 15151577 A 20150119

Priority
JP 2014008047 A 20140120

Abstract (en)
[origin: EP2897007A1] A process controller includes a first virtualizer configured to run in the first process controller, a first operating system configured to run on the first virtualizer, the first operating system transiting from a first state to a second state in a case that a control of an industrial process implemented in a plant is started, the first operating system transiting from the second state to the first state in a case that the control of the industrial process for one period ends, the first state being a state waiting for starting the control of the industrial process, and the second state being a state in which the control of the industrial process is performed, an application configured to run on the first operating system, the application performing the control of the industrial process at a constant period, and a saving unit configured to save information representing an inner state of the application in a case that the first operating system is in the first state, the information being necessary for restoring the application in a second process controller different from the first process controller.

IPC 8 full level
G05B 19/042 (2006.01); **G06F 9/455** (2018.01)

CPC (source: CN EP US)
G05B 19/0421 (2013.01 - US); **G05B 19/0426** (2013.01 - EP US); **G05B 19/418** (2013.01 - CN); **G05B 19/41845** (2013.01 - CN); **G05B 19/4186** (2013.01 - CN); **G06F 9/45558** (2013.01 - EP US); G05B 2219/2212 (2013.01 - EP US); G05B 2219/23327 (2013.01 - EP US); G06F 2009/4557 (2013.01 - EP US)

Cited by
CN108920252A; EP3757691A1; US10956149B2; CN110955199A; EP3629111A3; EP4068016A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2897007 A1 20150722; **EP 2897007 B1 20201125**; CN 104793581 A 20150722; CN 107741737 A 20180227; CN 107741737 B 20210629; JP 2015138292 A 20150730; JP 6020476 B2 20161102; US 2015205280 A1 20150723; US 9869984 B2 20180116

DOCDB simple family (application)
EP 15151577 A 20150119; CN 201510025653 A 20150119; CN 201710963283 A 20150119; JP 2014008047 A 20140120; US 201514599101 A 20150116